

**Figure 1A**

1 GCA CCC GGG AGG GAG ATG CGG CCG GGG CTC AGG CTC CTT GCA GTT GTA ATT TAG ATT CGA 60  
 61 GAA GTG GTT TAT CCT TTG ACT GGA AAA GAA AAG TAG CTG CAG TAT TCC CCC AGC ACT TGC 120  
 121 TGA GAG CAT GCC GTA TGC CAG GCT GTG AGG CTC GAG AGA CAA GCA GTG GAA GAG TTG CGG 180  
 181 CCT GTT TCA TCT CTG GAT TGT AAA TCT GAG CCT CCT TCT GGC CCC TGG AAG GGG ACA GCA 240  
 241 TCA CCA TGG AAT GAT TCC TAA CCA GCA TAA TGC TGG AGC CGG GAG CCA CCA ACC TGC AGT 300  
 1 TCA CCA TGG AAT GAT TCC TAA CCA GCA TAA TGC TGG AGC CGG GAG CCA CCA ACC TGC AGT 300  
 18 F R M A V L D T D TGA TTT GGA TCA CAT TCT TCC ATC TTC TGT TCT TCC 360  
 361 TCC ATT CTG GGC TAA GTT AGT AGT GGG ATC GGT TGC CAT TGT GTG TTT TGC ACG CAG CTA 420  
 38 P F W A K L V V G S V A I V N CAA TAA GGA CCT CCA AGC 480  
 421 TGA TGG AGA CTT TGT CTG TGA TGA CTC AGA AGC TAT TGT TAA CAA TAA GGA CCT CCA AGC 480  
 58 D G D F V D D TGA TGA CTC AGA AGC TAT TGT TAA CAA TAA GGA CCT CCA AGC 480  
 481 AGA AAC GCC CCT GGG GGA CCT GTG GCA TCA TGA CTT CTG GGG CAG TAG ACT GAG CAG CAA 540  
 78 E T P L G D L W H H D F W G S R L S S N 97  
 541 CAC CAG CCA CAA GTC CTA CCG GCC TCT CAC CGT CCT GAC TTT CAG GAT TAA CTA CTA CCT 600  
 98 T S H K S Y R P L T V L T GAC TTT CAG GAT TAA CTA CTA CCT 600

**Figure 1B**

601 CTC GGG AGG CTT CCA CCC CGT GGT GGG CTT TCA CGT GGT CAA CAT CCT CCT GCA CAG TGG CAT 660  
118 S G G G F H P V G G F F H V V N I L L H S G I 137

661 CTC TGT CCT CAT GGT GGA CGT CTT CTC GGT TCT GTT TGG CGG CCT GCA GTA CAC CAG TAA 720  
138 S V L M V D V V F S V L F G G L Q Y T S K 157

721 AGG CCG GAG GCT GCA CCT CGC CCC CAG GGC GTC CCT GCT GGC CGC GCT GCT GTT TGC TGT 780  
158 G R R L H L A P R A S L L A A L L F A V 177

781 CCA TCC TGT GCA CAC CGA GTG TGT TGC TGG TGT TGT CGG CCG TGC AGA CCT CCT GTG TGC 840  
178 H P V H T E C V A G V V G R A D L L C A 197

841 CCT GTT CTT CTT GTT ATC TTT CCT TGG CTA CTG TAA AGC ATT TAG AGA AAG TAA CAA GGA 900  
198 L F F L L S F L G Y C K A F R E S N K E 217

901 GGG AGC GCA TTC TTC CAC CTT CTG GGT GCT GCT GAG TAT CTT TCT GGG AGC AGT GGC CAT 960  
218 G A H S S T F W V L L L S I F L G A V A M 237

961 GCT GTG CAA AGA GCA AGG GAT CAC TGT GCT GGT GGG TTT AAA TGC GGT ATT TGA CAT CTT GGT 1020  
238 L C K E Q G I T V L L G L N A V F D I L V 257

1021 GAT AGG CAA ATT CAA TGT TCT GGA AAT TGN CCA GAA GGT ACT ACA TAA GGA CAA GTC ATT 1080  
258 I G K F N V L L E I X Q K V L H K D K S L 277

1081 AGA GAA TCT CGG CAT GCT CAG GAA CGG GGG CCT CCT CTT CAG AAT GAC CCT GCT CAC CTC 1140  
278 E N L L G M L R N G G G L L L F R M T L L T S 297

**Figure 1C**

1141 TGG AGG GGC TGG GAT GCT CTA CGT GCG CTG GAG GAT CAT GGG CAC GGG CCC GYC GGC CTT 1200  
298 G G A G M L Y V R W R I M G T G P X A F 317

1201 CAC CGA GGT GGA CAA CCC GGC CTC CTT TGC TGA CAG CAT GCT GGT GAG GGC CGT AAA CTA 1260  
318 T E V D N P A S F A D S M L V R A V N Y 337

1261 CAA TTA CTA TTC ATT ATT GAA TGC CTG GCT GCT GCT GCT GCT GCT GCT GCT TTT TGA 1320  
338 N Y Y Y S L L L W A W L L L C C P W W L C F D 357

1321 TTG GTC AAT GGG CTG CAT CCC CCT CAT TAA GTC CAT CAG CGA CTG GAG GGT AAT TGC ACT 1380  
358 W S M G C I P L I I K S I S D W R V I A L 377

1381 TGC AGC ACT CTG GTT CTG CCT AAT TGG CCT GAT ATG CCA AGC CCT GTG CTC TGA AGA CGG 1440  
378 A A L W F C L I G G L I C Q A L C S E D G 397

1441 CCA CAA GAG AAG GAT CCT TAC TCT GGG CCT GGG ATT TCT CGT TAT CCC ATT TCT CCC CGC 1500  
398 H K R R I L L T L G G L L G F L V I P F L P A 417

1501 GAG TAA CCT GTT CTT CCG AGT GGG CTT GGT GGT CGC GGA E A V V L Y C C C CAG 1560  
418 S N L F F CTT GGG CTT GGT GGT V A A E R R V L Y C C C P S 437

1561 CRT TGG GTA CTG TGT GCT GCT GCT TTT TGG ATT CGG AGC CCT GAG CAA ACA TAC CAA GAA 1620  
438 X G Y C V L L L T F F G F G A L S K H T K K 457

1621 AAA GAA ACT CAT TGC CGC TGT GCT GCT GGT GGT AAT CTT ATT CAT CAA CAC GCT GAG ATG TGT 1680  
458 K K L L I A A A V V L L G I L L F I N T L R C V 477

1681 GCT GCG CAG CGG CGA GTG GCG GAG TGA GGA ACA GCT TTT CAG AAG TGC TCT GTC TGT GTG 1740  
478 L R S G G E W R R S E E Q L L F F R S A L S V C 497

**Figure 1D**

1741 TCC CCT CAA TGC TAA GGT TCA CTA CAA CAT TGG CAA AAA CCT GGC TGA TAA AGG CAA CCA 1800  
498 P L N A K V H Y N I G K N L A D K G N Q 517

1801 GAC AGC TGC CAT CAG ATA CTA CCG GGA AGC TGT AAG ATT AAA TCC CAA GTA TGT TCA TGC 1860  
518 T A A I R Y Y Y R E A V R L N P K Y V H A 537

1861 CAT GAA TAA TCT TGG AAA TAT CTT AAA AGA AAG GAA TGA GCT ACA GGA AGC TGA GGA GCT 1920  
538 M N N L G N I L K E R N E L Q E A E L 557

1921 GCT GTC TTT GGC TGT TCA AAT ACA GCC AGA CTT TGC CGC TGC GTG GAT GAA TCT AGG CAT 1980  
558 L S L A V Q I I Q P D F A A W M N L G I 577

1981 AGT GCA GAA TAG CCT GAA ACG GTT TGA AGC AGA GCA AAG TTA CCG GAC AGC AAT TAA 2040  
578 V Q N S L K R F E A A E Q S Y R T A I K 597

2041 ACA CAG AAG GAA ATA CCC AGA CTG TTA CTA CAA CCT CGG GCG TCT GTA TGC AGA TCT CAA 2100  
598 H R R K Y P D C Y Y Y N L G R L Y A D L N 617

2101 TCG CCA CGT GGA TGC CTT GAA TGC GTG GAG AAA TGC CAC CGT GCT GAA ACC AGA GCA CAG 2160  
618 R H V D A L N A W R R N A T V L K P E H S 637

2161 CCT GGC CTG GAA CAA CAT GAT TAT ACT CCT CCA CAA TAC AGG TAA TTT AGC CCA AGC TGA 2220  
638 L A W N N M I I L L L L D N T T G N L A Q A E 657

2221 AGC AGT TGG AAG AGA GGC ACT GGA ATT AAT ACC TAA TGA TCA CTC TCT CAT GTT CTC GTT 2280  
658 A V G R E A L E L I P N D TGA TCA CTC TCT CAT GTT CTC GTT CTC GTT 2280  
658 A V G R E A L E L I P N D TGA TCA CTC TCT CAT GTT CTC GTT CTC GTT 2280

2281 GGC AAA CGT GCT GGG GAA ATC CCA GAA ATA CAA GGA ATC TGA AGC TTT ATT CCT CAA GGC 2340  
678 A N V L G K S Q K Y Y K E S E A L F F L K A 697

**Figure 1E**

2341 AAT TAA AGC AAA TCC AAA TGC TGC AAG TTA CCA TGG TAA TTT GGC TGT GCT TTA TCA TCG 2400  
698 I K A A N P A A A S Y H G N L A V L Y H R 717

2401 TTG GGG ACA TCT AGA CTT GGC CAA GAA ACA CTA TGA AAT CTC CTT GCA GCT TGA CCC CAC 2460  
718 W G H L D L A A K K H Y E I S L Q L D P T 737

2461 GGC ATC AGG AAC TAA GGA GAA TTA CGG TCT GCT GAG AAG AAA GCT AGA ACT AAT GCA AAA 2520  
738 A S G T K E N Y G L L R R K L E L M Q K 757

2521 GAA AGC TGT CTG ATC CTG TTT CCT TCA TGT TTT GAG TTT GAG TGT GTG TGT GCA TGA GGC 2580  
758 K A V \* 760

2581 ATA TCA TTA ATA GTA TGT GGT TAC ATT TAA CCA TTT AAA AGT CTT AGA CAT GTT ATT TTA 2640

2641 CTG ATT TTT TTC TAT GAA AAC AAA GAC ATG CAA AAA GAT TAT AGC ACC AGC AAT ATA CTC 2700

2701 TTG AAT GCG TGA TAT GAT TTT TCA TTG AAA TTG TAT TTT TTC AGA CAA CTC AAA TGT AAT 2760

2761 TCT AAA ATT CCA AAA ATG TCT TTT TTA ATT AAA CAG AAA AAG AGA AAA AAT TAT CTT GAG 2820

2821 CAA CTT TTA GTA GAA TTG AGC TTA CAT TTG GGA TCT GAG CCT TGT CGT GTA TGG ACT AGC 2880

2881 ACT ATT AAA CTT CAA TTA TGA CCA AGA AAG GAT ACA CTG GCC CCT ACA ATT TGT ATA AAT 2940

2941 ATT GAA CAT GTC TAT ATA TTA GCA TTT TTA TTT AAT GAC AAA GCA AAT TAA GTT TTT TTA 3000

3001 TCT CTT TTT TTT AAA ACA ACA TAC TGT GAA CTT TGT AAG GAA ATA TTT ATT TGT ATT TTT 3060

**Figure 1F**

3061 ATG TTT TGA ATA GGG CAA ATA ATC GAA TGA GGA ATG GAA GTT TTA ACA TAG TAT ATC TAT 3120  
3121 ATG CTT TTC CCC ATA GGA AGA AAT TGA CTC TTG CAG TTT TTG GAT GCT CTG ACT TGT GCA 3180  
3181 ATT TCA ATA CAC AGG AGA TTA TGT AAT GTA ATA TTT TTC ATA AGC GGT TAC TAT CAA TTG 3240  
3241 AAA GTT CAA GCC ATG CTT TAG GCA AGA GCA GGC AGC CTC ACA TCT TTA TTT TTG TTA CAT 3300  
3301 CCA AGG TGA AGA GGG CAA CAC ATC TGT GTA AGC TGC TTT TTA GTG TGT TTA TCT GAA GGC 3360  
3361 CGT TTT CCA TTT TGC TTA ATG TAA CTA CAG ACA TTA TCC AGA AAA TGC AAA ATT TTC TAT 3420  
3421 CAA ATG GAG CCA CAT TCG GGG AAT TCG TGG TAT TTT TAA GAA TTG AGT TGT TCC TGC TGT 3480  
3481 TTT TTA TTT GAT CCA AAC AAT GTT TTG TTT TGT TCT TCT CTG TAT GCT GTT GAC CTA ATG 3540  
3541 ATT TAT GCA ATC TCT GTA ATT TCT TAT GCA GTA AAA TTA CTA CAC AAA CTA GCA AAA AAA 3600  
3601 AAA AAA AAA AAA GGG CGG CCG CTC TAG AGG ATC CAA GCT TAC GTA CGC GTG CAT GCG 3660  
3661 ACG TCA TAG CTC TTC TAT ATG AGT GCA CCT AAA TTC AAT TCA CTG GGC CGT TTT ACA ACG 3720

## Figure 1G

3721 TCG TGA CTG GGA AAA CCC TGC GNT ACC CAA CTT AAT CGC CTT GCA GCA CAT CCC CCT TTC 3780  
3781 GCC AAG CTG GCG TAA TAG CGA AAA GGC CCG GAC CGA CGG CCT TTC CAA CAG TTG CCA ACC 3840  
3841 TGA AGG CNA AAG GGA CCC CTG GAC GGG GCA TAA NCC CGN GGN T 3886

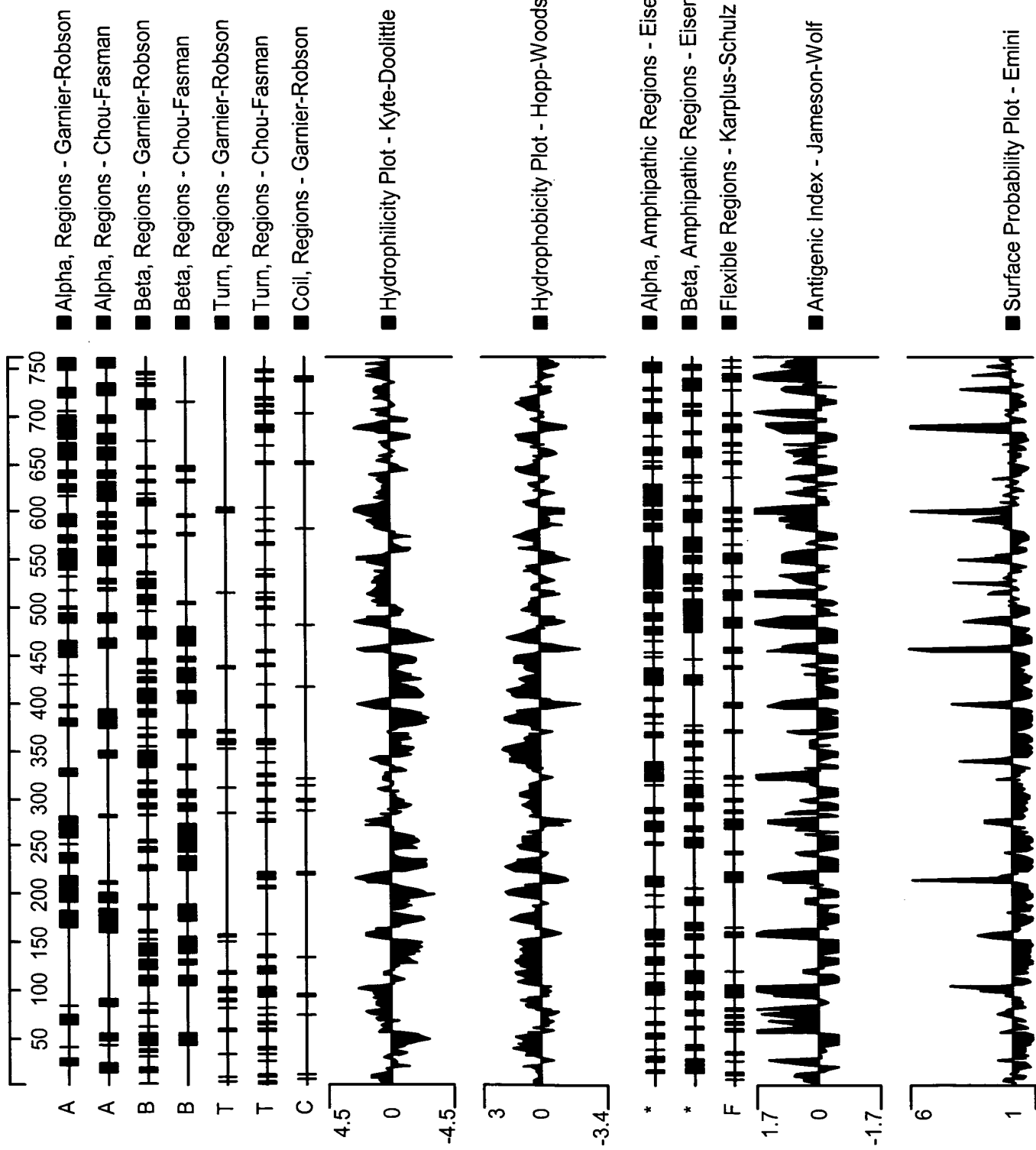


Figure 2